

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	50	(CNT! OR DWNT! OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid\$ OR (single\$wall carbon nanotube) OR (single\$walled carbon nanotube) OR (multi\$wall carbon nanotube) OR (multi\$walled carbon nanotube) OR (armchair carbon nanotube) OR (branched carbon nanotube) OR (chiral carbon nanotube) OR (zigzag carbon nanotube) OR (carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WITH (NADDBS! OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))	US-PGPUB; USPAT	ADJ	ON	2010/02/13 11:57
L2	6	1 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2010/02/13 11:58
L3	15	(CNT! OR DWNT! OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid\$ OR (single\$wall carbon nanotube) OR (single\$walled carbon nanotube) OR (multi\$wall carbon nanotube) OR (multi\$walled carbon nanotube) OR (armchair carbon nanotube) OR (branched carbon nanotube) OR (chiral carbon nanotube) OR (zigzag carbon nanotube) OR (carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WITH (NADDBS! OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene	USOCR; FPRS; DERWENT; IBM_TDB	ADJ	ON	2010/02/13 12:01

		sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))				
L4	1	3 AND @ad<="20020910"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2010/02/13 12:02
L5	111623	"428".clas. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2010/02/13 12:10
L6	115	(CNT! OR DWNT! OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid\$ OR (single\$wall carbon nanotube) OR (single\$walled carbon nanotube) OR (multi\$wall carbon nanotube) OR (multi\$walled carbon nanotube) OR (armchair carbon nanotube) OR (branched carbon nanotube) OR (chiral carbon nanotube) OR (zigzag carbon nanotube) OR (carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WITH surfactant WITH (aqueous OR water OR "H.sub.2O") WITH dispersion	US-PGPUB; USPAT	ADJ	ON	2010/02/13 12:11
L7	91	6 AND substrate	US-PGPUB; USPAT	ADJ	ON	2010/02/13 12:11
L10	2	7 AND nematic gel	US-PGPUB; USPAT	ADJ	ON	2010/02/13 13:33
L11	32	7 AND gel	US-PGPUB; USPAT	ADJ	ON	2010/02/13 13:36
L26	21961	(423/447.1 977/920 977/742 977/750 977/751 977/752 427/372.2 428/221 428/292.1 428/323 428/408 428/367 428/688 106/287.23 106/287.24 106/287.25 264/500 252/502 524/495 524/496 524/847).ccls.	US-PGPUB; USPAT	OR	ON	2010/02/13 13:58
L27	12075	26 AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2010/02/13 13:58
L28	503	27 AND (CNT! OR DWNT! OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid\$ OR (single\$wall carbon nanotube) OR (single\$walled carbon nanotube) OR (multi\$wall carbon nanotube) OR (multi\$walled carbon nanotube) OR (armchair carbon nanotube) OR (branched carbon nanotube) OR (chiral carbon nanotube) OR (zigzag carbon nanotube) OR (carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon	US-PGPUB; USPAT	ADJ	ON	2010/02/13 13:58

		nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament))				
L29	12	28 AND (CNT! OR DWNT! OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid\$ OR (single\$wall carbon nanotube) OR (single\$walled carbon nanotube) OR (multi\$wall carbon nanotube) OR (multi\$walled carbon nanotube) OR (armchair carbon nanotube) OR (branched carbon nanotube) OR (chiral carbon nanotube) OR (zigzag carbon nanotube) OR (carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) AND (NADDBS! OR NaOBS OR NaBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/02/13 13:59
S1	19	("20020046872" "20020058743" "20020068170" "20020090501" "20020161101" "20020185770" "20020197923" "20030077515" "20030122111" "20030126502" "20030151030" "20030158323" "20030164427" "20030236588" "20040029706" "5908585" "6576341" "6617377" "6689835"). PN.	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 13:48
S2	1	"20020113335".PN.	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 13:51
S3	778	435/287.9.ccls.	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 14:09
S4	1902	524/495.ccls.	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 14:09
S5	821	257/415.ccls.	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 14:09
S6	1902	524/495.ccls.	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 14:09
S7	2	dispersion WITH (aqueous medium) WITH (carbon nanotube\$) WITH surfactant	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 14:15
S8	6	dispersion WITH (water) WITH (carbon nanotube\$) WITH surfactant	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 14:18

S9	0	S8 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 14:42
S10	2359	(S1 S3 S4 S5 S6) AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2008/08/05 14:43
S11	42	S10 AND carbon nanotube\$	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 14:43
S12	15	S11 AND gel	US-PGPUB; USPAT	ADJ	OFF	2008/08/05 15:59
S16	10	("20060051556" OR "20060228521" OR "20070116908" OR "20060021310" OR "20070204580" OR "20070212517" OR "20080083202" OR "20070178275" OR "20070196620" OR "20050272602").pn.	US-PGPUB; USPAT	ADJ	OFF	2008/08/10 11:47
S17	164	(dispers\$4 OR suspen\$4) WITH (aqueous OR water) WITH surfactant WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofuber\$ OR nanotoroid\$)	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 14:48
S18	54	S17 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 14:48
S19	0	S18 AND (hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 14:51
S20	2	(dispers\$4 OR suspen\$4) WITH (aqueous OR water) WITH ((hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate) WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofuber\$ OR nanotoroid\$)	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 14:51
S21	8	(dispers\$4 OR suspen\$4) WITH (aqueous OR water) WITH NaDDBS WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofuber\$ OR nanotoroid\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2008/08/12 14:54
S22	0	S21 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 14:54
S23	10	NaDDBS WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofuber\$ OR nanotoroid\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2008/08/12 17:10
S24	0	S23 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:11
S25	9	((NaDDBS OR hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate) WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofuber\$ OR nanotoroid\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2008/08/12 17:11
S26	16	(NaDDBS OR ((hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate)) WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofuber\$ OR nanotoroid\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2008/08/12 17:12
S27	0	S26 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:12

S28	2450	(NaDDBS OR ((hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate)) WITH surfactant\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2008/08/12 17:14
S29	1426	S28 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:14
S30	2305	(NaDDBS OR ((hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate)) WITH surfactant\$	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:14
S31	1426	S30 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:14
S32	15	(NaDDBS) WITH surfactant\$	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:15
S33	0	S32 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:15
S34	1698	(NaDDBS OR ((hexylbenzene OR sodium octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate)) WITH surfactant\$	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:16
S35	1052	S34 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:16
S36	857	S35 AND carbon	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:17
S37	16	(NaDDBS OR ((hexylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) sulfonate)) WITH (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofiber\$ OR nanotoroid\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2008/08/12 17:25
S38	0	S37 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:26
S39	2630	alkyl benzene sulfonate AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:34
S40	2043	S39 AND (surfactant OR wetting agent)	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:34
S41	0	S40 AND (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofiber\$ OR nanotoroid\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2008/08/12 17:35
S42	44	benzenesulfonate\$ AND (CNT OR SWNT OR MWNT OR DWNT OR nanotube\$ OR nanofiber\$ OR nanotoroid\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2008/08/12 17:45
S43	4	S42 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:45
S44	19	("20020046872" "20020058743" "20020069170" "20020090501" "20020161101" "20020185770" "20020197923" "20030077515" "20030122111" "20030126502" "20030151030" "20030158323" "20030164427" "20030236588" "20040029706" "5908585" "6576341" "6617377" "6689835"). FN.	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:47
S45	14	S44 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:48

S46	4	S45 AND (surfactant OR wetting agent)	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:48
S47	12	S45 AND (dispers\$4 OR suspen\$4)	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:49
S48	0	(NaDDBS OR ((hexylbenzene OR sodium octylbenzene OR dodecylbenzene OR hexadecylbenzene)) sulfonate)) AND S45	US-PGPUB; USPAT	ADJ	OFF	2008/08/12 17:53
S49	0	benzenesulfonate\$ AND S45	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	OFF	2008/08/12 17:53
S50	36	calixarene\$ WITH nano\$7	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 14:30
S51	13	S50 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 14:30
S52	5	resorcinarene\$ WITH nano\$7	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 14:33
S53	2	S52 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 14:33
S54	31	calixarene WITH (surfactant\$ OR dispers \$4)	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 14:40
S55	11	S54 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 14:40
S56	1	"20030133865".pn.	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 21:06
S57	9	(US-20030122111-\$ or US- 20020113335-\$ or US-20030100653-\$ or US-20030083421-\$ or US- 20030077515-\$ or US-20020185770-\$ or US-20030061965-\$).did. or (US- 6764540-\$ or US-6899947-\$).did.	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 22:32
S58	2	S57 AND (electro\$6 WITH separat\$4)	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 22:33
S59	3	S57 AND (electro\$8 WITH separat\$4)	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 22:33
S60	258	electrophor\$8 WITH (carbon nanotube \$)	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 23:05
S61	50	S60 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 23:07
S62	35	electrophor\$8 WITH (carbon nanotube \$) WITH dispers\$4	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 23:09
S63	6	S62 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 23:09
S64	44	S61 NOT S63	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 23:14
S65	10	electrophor\$8 WITH (carbon nanotube \$) WITH (length\$ OR shape\$)	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 23:15
S66	1	S65 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/17 23:15

S67	15	(US-20030122111-\$ or US-20020113335-\$ or US-20030100653-\$ or US-20030083421-\$ or US-20030077515-\$ or US-20020185770-\$ or US-20030061965-\$ or US-20020172639-\$ or US-20040039717-\$ or US-20020179428-\$ or US-20020069505-\$ or US-20030133865-\$). did. or (US-6764540-\$ or US-6899947-\$ or US-6889216-\$).did.	US-PGPUB; USPAT	ADJ	OFF	2008/09/18 14:53
S69	7	S68 AND (powder\$ OR film\$ OR particle\$ OR pellet\$)	US-PGPUB; USPAT	ADJ	OFF	2008/09/18 14:54
S72	15	(US-20030122111-\$ or US-20020113335-\$ or US-20030100653-\$ or US-20030083421-\$ or US-20030077515-\$ or US-20020185770-\$ or US-20030061965-\$ or US-20020172639-\$ or US-20040039717-\$ or US-20020179428-\$ or US-20020069505-\$ or US-20030133865-\$). did. or (US-6764540-\$ or US-6899947-\$ or US-6889216-\$).did.	US-PGPUB; USPAT	ADJ	OFF	2008/09/19 19:10
S73	5	S72 AND (self\$assembl\$3 OR self\$align\$4)	US-PGPUB; USPAT	ADJ	OFF	2008/09/19 19:11
S74	15	(US-20030122111-\$ or US-20020113335-\$ or US-20030100653-\$ or US-20030083421-\$ or US-20030077515-\$ or US-20020185770-\$ or US-20030061965-\$ or US-20020172639-\$ or US-20040039717-\$ or US-20020179428-\$ or US-20020069505-\$ or US-20030133865-\$). did. or (US-6764540-\$ or US-6899947-\$ or US-6889216-\$).did.	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 09:10
S76	9	S74 AND substrate\$	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 09:19
S78	25	substrate\$ WITH (carbon nanotube\$) WITH surfactant\$	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 09:28
S79	0	substrate\$ WITH (carbon nanotube\$) WITH surfactant\$ WITH (self\$align\$4 OR self\$assembl\$4)	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 09:29
S80	6	S78 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2008/09/21 09:30
S81	2	substrate\$ SAME ((carbon nanotube\$) WITH surfactant\$) SAME (self\$align\$4 OR self\$assembl\$4)	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 09:31
S82	17	substrate\$ SAME ((carbon nanotube\$) WITH surfactant\$) AND (self\$align\$4 OR self\$assembl\$4)	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 09:33
S83	0	substrate\$ SAME ((carbon nanotube\$) WITH surfactant\$) A	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 09:37
S84	48	substrate\$ SAME ((carbon nanotube\$) WITH surfactant\$)	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 09:37
S85	12	S84 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2008/09/21 09:37

S86	272	(carbon nanotube\$) WITH (sens\$3 OR detect\$3) WITH (chemical OR biological OR DNA OR glucose OR insulin OR cancer)	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 12:03
S87	32	S86 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 12:03
S88	6	S87 AND proton\$	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 12:07
S89	19	S87 AND functional\$5	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 12:07
S90	2	S88 AND S89	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 12:08
S91	14	S89 AND (film\$ OR matrix OR matrices OR gel\$)	US-PGPUB; USPAT	ADJ	OFF	2008/09/21 12:22
S92	0	(carbon nanotube) WITH nematic gel	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 00:34
S93	0	(carbon nanotube\$) WITH nematic gel	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 00:35
S94	232	(carbon nanotube\$) WITH gel	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 00:35
S95	28	S94 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 00:35
S96	0	S95 AND (initiator OR accelerator)	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 00:36
S97	2459	(carbon nanotube\$) WITH (film OR dispersion)	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 00:36
S98	368	S97 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 00:36
S99	13	S98 AND (initiator OR accelerator)	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 00:37
S100	0	S98 AND volumetric phase transition	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 00:57
S101	0	S98 AND volume phase transition	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 00:58
S102	27	capillary SAME nanotube SAME (gel\$ OR film\$)	US-PGPUB; USPAT	ADJ	OFF	2008/09/28 22:26
S103	7	S102 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2008/09/28 22:27
S104	135	magnetic SAME nanotube SAME (gel\$ OR film\$)	US-PGPUB; USPAT	ADJ	OFF	2008/09/29 00:07
S105	29	S104 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2008/09/29 00:08
S106	47	magnetic field SAME nanotube SAME (gel\$ OR film\$)	US-PGPUB; USPAT	ADJ	OFF	2008/09/29 00:09
S107	13	S106 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2008/09/29 00:09
S108	35	((needle\$ OR needle\$6) WITH nanotube) SAME (align\$6 OR assembl\$6 OR orient\$6)	US-PGPUB; USPAT	ADJ	OFF	2008/09/29 01:26
S109	10	S108 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/29 01:27
S110	502	423/447.2.ccls.	US-PGPUB; USPAT	ADJ	OFF	2008/09/29 02:47

S111	354	S110 AND @ad<="20020910"	US-PGPUB; USPAT	ADJ	OFF	2008/09/29 02:47
S112	169	S111 AND (nematic OR gel\$ OR film\$)	US-PGPUB; USPAT	ADJ	OFF	2008/09/29 02:48
S113	1	S111 AND (nematic)	US-PGPUB; USPAT	ADJ	OFF	2008/09/29 02:48
S114	1	"20060099135".pn.	US-PGPUB; USPAT	ADJ	ON	2009/07/21 15:39
S115	355	423/447.2.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:46
S116	455	423/447.1.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:46
S117	1280	524/495.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:46
S118	963	524/496.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:46
S119	153	977/742.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:47
S120	17	977/745.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:47
S121	14	977/746.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:47
S122	8	977/748.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:48
S123	49	977/750.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:48
S124	121	977/842.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:48
S125	46	977/845.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:48
S126	56	977/847.ccls. AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:48
S127	2540	(S115 S116 S117 S118 S119 S120 S121 S122 S123 S124 S125 S126)	US-PGPUB; USPAT; USOCR	OR	OFF	2009/07/21 15:51
S128	29	S127 AND (NaDBS OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene)	US-PGPUB; USPAT	ADJ	OFF	2009/07/21 15:54
S129	1	S128 AND (CNT! OR SWNT! OR MWNT! OR DWNT! OR fullerene OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid\$)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 15:57
S130	334	(NaDBS OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) AND (CNT! OR SWNT! OR MWNT! OR DWNT! OR fullerene OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid \$)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 16:01
S131	43	S130 AND @ad<="20020910"	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 16:01
S132	31	S131 AND (surfactant OR dispers\$4)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 16:04

S133	6	S132 AND (surfactant OR dispers\$4) SAME (NaDBBS OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene)	US-PGPUB; USPAT; USOCR	ADJ	OFF	2009/07/21 16:09
S134	37	(NaDBBS OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene) AND (CNT! OR SWNT! OR MWNT! OR DWNT! OR fullerene OR nanorope OR nanotube\$ OR nanofiber\$ OR nanotoroid\$)	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/21 16:15
S135	4	S134 AND @ad<="20020910"	FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2009/07/21 16:16
S136	1	"20060099135".pn.	US-PGPUB; USPAT	ADJ	OFF	2010/02/12 16:25
S137	80	dispersion WITH (aqueous OR water OR "H.sub.2"O) WITH ((carbon nanotube) OR SWNT! OR CNT!) WITH (surfactant OR NADDBS!)	US-PGPUB; USPAT	ADJ	ON	2010/02/12 17:38
S138	5	S137 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2010/02/12 17:40
S139	81	dispersion WITH (aqueous OR water OR "H.sub.2"O) WITH ((carbon nanotube) OR SWNT! OR CNT!) WITH (surfactant OR NADDBS! OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))	US-PGPUB; USPAT	ADJ	ON	2010/02/12 18:07
S140	115	dispersion WITH (aqueous OR water OR "H.sub.2"O) WITH ((carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WITH (surfactant OR NADDBS! OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium	US-PGPUB; USPAT	ADJ	ON	2010/02/12 18:08

		hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))				
S141	15	S140 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2010/02/12 18:13
S142	19	dispersion WITH (aqueous OR water OR "H.sub.2"O) WITH ((carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WITH (NADDBS! OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))	US-PGPUB; USPAT	ADJ	ON	2010/02/12 18:14
S143	4	S142 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2010/02/12 18:15
S144	27	(aqueous OR water OR "H.sub.2"O) WITH ((carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WITH (NADDBS! OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))	US-PGPUB; USPAT	ADJ	ON	2010/02/12 18:19
S145	5	S144 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2010/02/12 18:19

S146	7	((aqueous OR water OR "H.sub.2"O) WITH ((carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WITH (NADDBS! OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/02/12 18:21
S147	0	S146 AND @ad<="20020910"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/02/12 18:21
S148	49	((carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WITH (NADDBS! OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))	US-PGPUB; USPAT	ADJ	ON	2010/02/12 18:23
S149	6	S148 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2010/02/12 18:23
S150	3	(Matarredona Rhoads Li Harwell Balzano Resasco).in. AND S148	US-PGPUB; USPAT	OR	ON	2010/02/12 18:30
S151	1	(Sun Gao Li).in. AND S148	US-PGPUB; USPAT	OR	ON	2010/02/12 18:33

S152	1	((carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) WITH "C.sub.12H.sub.25C.sub.6H.sub.4SO.sub.3Na"	US-PGPUB; USPAT	ADJ	ON	2010/02/12 18:34
S153	4	((carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) AND "C.sub.12H.sub.25C.sub.6H.sub.4SO.sub.3Na"	US-PGPUB; USPAT	ADJ	ON	2010/02/12 18:34
S154	0	S153 AND @ad<="20020910"	US-PGPUB; USPAT	OR	OFF	2010/02/12 18:34
S155	0	((carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) AND "C.sub.12H.sub.25C.sub.6H.sub.4SO.sub.3Na"	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/02/12 18:35
S156	0	(Matarredona Rhoads Li Harwell Balzano Resasco Sun Gao).in. AND ((carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) AND (NADDBS! OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))	USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2010/02/12 18:35
S157	0	(Matarredona Rhoads Li Harwell Balzano Resasco Sun Gao).in. AND ((carbon nanotube) OR SWNT! OR CNT! OR SWCNT! OR MWCNT! OR MWNT! OR nanotube OR fullerene OR (carbon nanorope) OR (carbon nanofiber) OR (carbon nanofibril) OR (carbon nanofilament)) AND (NADDBS! OR NaOBS OR NaBBS OR butylbenzene OR octylbenzene OR dodecylbenzene OR hexadecylbenzene OR (Sodium hexadecylbenzenesulfonate) OR (sodium hexadecyl benzene sulfonate) OR (sodium hexadecylbenzene	US-PGPUB; USPAT; USOCR	ADJ	ON	2010/02/12 18:36

sulfonate) OR (Sodium dodecylbenzenesulfonate) OR (sodium dodecyl benzene sulfonate) OR (sodium dodecylbenzene sulfonate) OR (Sodium hexylbenzenesulfonate) OR (sodium hexyl benzene sulfonate) OR (sodium hexylbenzene sulfonate) OR (Sodium octylbenzenesulfonate) OR (sodium octyl benzene sulfonate) OR (sodium octylbenzene sulfonate))

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